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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,248	08/20/2003	Mark Timothy Bennett	102792-158 7552	
27389 7590 06/01/2007 NORRIS, MCLAUGHLIN & MARCUS			EXAMINER	
875 THIRD AVE			KUMAR, PREETI	
18TH FLOOR NEW YORK, NY 10022			ART UNIT	PAPER NUMBER
ŕ			1751	
			MAIL DATE	DELIVERY MODE
			06/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/645,248	BENNETT ET AL.			
		Examiner	Art Unit			
		Preeti Kumar	1751			
Period fo	The MAILING DATE of this communication apport	ears on the cover sheet with the c	orrespondence address			
A SH WHIC - Exte after - If NC - Failu Any earn	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a significant of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
′—	Responsive to communication(s) filed on 11 Fe	<u>ebruary 2007</u> .				
, —	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	03 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-7 and 12-22 is/are pending in the appearance of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-7 and 12-22 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.				
Applicat	ion Papers					
,	The specification is objected to by the Examine					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex					
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
2) Notice	ot(s) Doe of References Cited (PTO-892) Doe of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO/SB/08)	4)	ate			
	er No(s)/Mail Date	6) Other:	• •			

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DETAILED ACTION

Final Rejection

1. Claims 1-7 and 12-22 are pending. Claim 22 is newly added in the amendment filed 2/11/2007. Claim 1 is independent.

Response to Amendment

- 2. The rejection of claims 1-4, 12-15 and 17-21 under 35 U.S.C. 102(b) as anticipated by Casey et al. (US 4,678,658) is maintained.
- 3. The rejection of claims 5-7, 16 and 22 under 35 U.S.C. 103(a) as being unpatentable over Casey et al. (US 4,678,658) in view of Coates et al. (EP 0 099 209) is maintained. The limitation of newly added claim 22 has been addressed below.

Response to Arguments

4. Applicant's arguments filed 2/11/2007 have been fully considered but they are not persuasive. Applicants urge that the prior art teaching of Casey et al. (US 4,678,658) does not anticipate the claimed composition since Casey et al. teach germicides and surfactant detergent compounds as a necessary component of the composition while the instant claims recite these components as optional. This argument is not found convincing because the teachings of Casey et al. recite the claimed components in the claimed ratio and furthermore, the instant claims recite optional limitation to said "necessary" components which components are clearly not excluded from the claimed composition.

Applicants urge that the prior art teaching of Coates is not pertinent to the instant claims since there is no recitation of any criticality respecting any combination of

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specific pH, alcohol in achieving any kill or any microorganism, an in particular polio virus. In response, the instant claims are drawn to a broad range of microorganisms and not limited to killing polio virus as stated by applicants arguments. Furthermore, the teaching of Coates et al. provide motivation to one of ordinary skill to arrive at an antimicrobial composition comprising ethanol since Coates et al teaches the equivalence of ethanol with isopropanol taught by the primary reference of Casey et al. See abstract of Coates et al. Also, it would have been obvious to one of ordinary skill in the art to arrive at an antimicrobial composition comprising quaternary ammonium halides since Coates et al. teach that the quaternary ammonium halide will provide good biocidal activity after evaporation of the alcohol within the antimicrobial composition.

See abstract and page 4,ln.5-10.

Claim Rejections

5. Claims 1-4, 12-15 and 17-21 are rejected under 35 U.S.C. 102(b) as anticipated by Casey et al. (US 4,678,658).

Casey et al. teach an aerosol spray for use in disinfecting a surface for personal use, such as a public restroom facility or telephone. The composition and delivery of the composition provides for the placement of a spray of disinfectant which includes a dye. The dye disappears as the spray effects the germicidal activity of the disinfectant. The composition is also rapidly drying, so that the dye disappears as well as the disinfecting composition leaving the surface dry. See abstract.

Casey et al. teach that the composition exhibits antimicrobial efficacy against

Herpes simplex virus type 2 (HSV2) as well as bacteria such as Staphylococcus aureus,

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Neisseria gonorrhoeae, enteric bacteria Escherichia coli 011K58 (Pathogenic), Shigella sonnei and Salmonella typhimurium, and the yeast Candida albicans. See col.1,ln.55-60.

In table 5, in col.6, Casey et al. illustrate a biocide propellant comprising 51.62wt.% isopropanol and 27.52 wt.% deionized water. In example 1, col.3, Casey et al. teach that the pH of the composition varies between 8.8 and 12.53.

Accordingly the teachings of Casey et al. anticipate the material limitations of the instant claims.

6. Claims 5-7, 16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Casey et al. (US 4,678,658) in view of Coates et al. (EP 0 099 209).

Casey et al. are relied upon as set forth above.

However, Casey et al. do not teach the claimed quaternary ammonium compound recited by the instant claims 5-7 and do not specifically teach the claimed ethanol of claim 16 and the claimed microorganisms of claim 22.

Regarding claim 16, Coates et al. teach an aqueous disinfectant solution having residual biocidal activity comprising 60-80% C1-C4 alcohol, preferably ethanol or isopropanol. See abstract. Coates et al. teach that a quaternary ammonium halide addition to the composition will be useful in cleaning hard surfaces in hospital since the composition will show good biocidal activity after evaporation of the alcohol. See abstract and page 4,ln.5-10. Regarding claim 6, although Coates et al. preferably teach the utility of quaternary ammonium chlorides, the teachings of Coates encompasses all quaternary ammonium halides and thus encompasses the material limitation of the

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instant claim. Regarding claim 22, Coates et al. teach the biocidal activity against Pseudomonas aeruginosa, S. aureus, E. coli and Salmonella choleraeusis. See page 8,ln.15-20 and table 2.

It would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the antimicrobial composition of Casey et al. with the quaternary ammonium compound and ethanol as recited by the instant claims, because the teachings of Coates et al. provide motivation to one of ordinary skill to arrive at an antimicrobial composition comprising ethanol since Coates et al teaches the equivalence of ethanol with isopropanol taught by the primary reference of Casey et al.

It would have been obvious to one of ordinary skill in the art to arrive at an antimicrobial composition comprising quaternary ammonium halides since Coates et al. teach that the quaternary ammonium halide will provide good biocidal activity after evaporation of the alcohol within the antimicrobial composition.

It would have been obvious to one of ordinary skill in the art, at the time the invention was made to arrive at an antimicrobial composition having biocidal activity against Pseudomonas aeruginosa and Salmonella choleraeusis as recited by the instant claim 1 and 22, because the teachings of Casey et al. in view of Coates et al. suggest a antimicrobial composition having biocidal activity against various reinfecting organisms in general. One of ordinary skill in the art, would have been motivated to combine the teachings of Casey et al. with that of Coates et al. because both teach the analogous art of antimicrobial detergent composition.

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Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Preeti Kumar whose telephone number is 571-272-1320. The examiner can normally be reached on M-F 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Mc Ginty can be reached on 571-272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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DOUGLAS MCGINTY SUPERVISORY PATENT EXAMINER

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